U.S. NAVY DENTAL CORPS SURVEY OF 1994: ANALYSIS OF NARRATIVE RESPONSES

M. J. Bourne

S. M. Hilton

L. Shaw



Report No. 95-9

DTIC QUALITY INSPECTED 5

Approved for public release; distribution unlimited

NAVAL HEALTH RESEARCH CENTER P.O. BOX 85122 SAN DIEGO, CALIFORNIA 92186-5122

NAVAL MEDICAL RESEARCH AND DEVELOPMENT COMMAND BETHESDA, MARYLAND



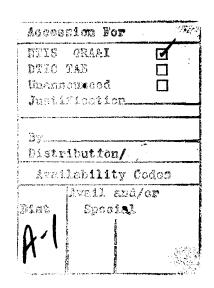


9950818 063

U.S. NAVY DENTAL CORPS SURVEY OF 1994: ANALYSIS OF NARRATIVE RESPONSES

LT Mark J. Bourne, MSC, USN Susan M. Hilton, M.A. LCDR Larry Shaw, DC, USN

Health Sciences and Epidemiology Department Naval Health Research Center P.O. Box 85122 San Diego, CA 92186-5122



Report No. 95-9 was supported by the Naval Medical Research and Development Command, Department of the Navy, under Work Unit No. 65152N-M0106.001-6422. The views expressed in this article are those of the authors and do not reflect the official policy or position of the Department of the Navy, Department of Defense, or the U.S. Government. Approved for public release, distribution unlimited. The assistance of CAPT Dean Schloyer, Med-06, and LT Todd Allen, Med-06C, is gratefully acknowledged.

EXECUTIVE SUMMARY

Problem

Following recent changes in the organizational structure and mission of the U.S. Navy, the Chief of the Navy Dental Corps requested a study of organizational attitudes, perceptions, and outcomes from the Naval Health Research Center. Decision-support information was needed to better evaluate existing policies, improve management practices, and facilitate long-range planning.

Objective

The purpose of the present study was to assess the attitudes and perceptions of officers within the U.S. Navy Dental Corps as a function of occupational specialty, gender, and career stage (rank).

Approach

An anonymous survey was sent to all active-duty Navy Dental Corps officers. A total of 915 officers responded to the survey. Content analysis was conducted on semi-structured narrative responses. The leading positive aspects and the leading aspects most in need of improvement in the Dental Corps were assessed.

Results

Overall, the leading positive aspects of serving in the U.S. Navy Dental Corps were: camaraderie, training opportunities, professional enrichment, opportunities for travel or particular duty assignments, military/patriotic lifestyle, and Navy-related job conditions. While there was general consistency in the ordering of leading positive aspects across the subspecialties, more periodontists and oral diagnosticians identified training opportunities, whereas more operative dentists and general dentists identified professional enrichment. Lieutenant commanders and commanders identified training opportunities more frequently than did lieutenants or captains, whereas more lieutenants and captains identified on-the-job enrichment. Men identified training opportunities as a positive aspect more frequently than did women, while women identified Navy-related job conditions more often than did men.

The leading aspects of the Dental Corps identified as needing improvement were: adequacy of pay, opportunity for promotion, quality of leadership, impact from various Navy policies, shortage of chairside Dental Corps officers, and excess of administrative/collateral-duty requirements. Oral surgeons, endodontists, and operative dentists identified pay issues more than the other subspecialties. More oral diagnosticians identified chairside staffing shortage, promotion opportunities, and, along with periodontists, administrative/collateral-duty requirements. Males identified needing to improve pay more frequently than did women. Lieutenants emphasized pay more frequently than the other ranks, while more lieutenant commanders and commanders were concerned about promotion.

Conclusions

The results of the study provided valuable information regarding the attitudes and perceptions of Dental Corps officers to the senior leadership of the Dental Corps. This study points to the importance of assessing qualitative information from the membership when defining the issues affecting complex military organizations.

U.S. NAVY DENTAL CORPS SURVEY OF 1994: ANALYSIS OF NARRATIVE RESPONSES

In complex organizations, quality leadership entails the solicitation of membership feedback for problem-solving and problem prevention. The impact from changing conditions on membership attitudes and perceptions is considered highly relevant to the continued success of the organization. To provide such organizational information to the senior leadership of the U.S. Navy Dental Corps, the Chief of the Dental Corps requested that the Naval Health Research Center (NHRC) develop and execute a study to assess organizational issues and outcomes within the Dental Corps. This study would provide specific decision-support information to evaluate existing policies, improve management practices, and facilitate long-range planning.

The inital attitudinal study^{1,2} of the U.S. Navy Dental Corps reported that lieutentants and lieutenant commanders showed the highest relative percent increase in anticipated non-retirement losses. Among lieutenant commanders, turnover intent was disproportionately high for oral/maxillofacial surgeons, periodontists, and endodontists. Moreover, satisfaction with the job, pay, and promotion opportunities were negatively associated with turnover intent. Fifty-three percent of all lieutenants and lieutenant commanders intending to separate from the Navy specified pay or lack of promotion opportunities as the primary reason. The current study includes comparisons with this earlier work.

Previous organizational research³ has suggested that the psychological climate of one's current job situation is determined by: (a) the individual's cognitively based description of the situation, (b) a psychological processing of specific perceptions into more abstract depictions of the psychologically meaningful influences in the situation, (c) situational characteristics that have relatively direct and immediate ties to individual experience, and (d) applicability across a variety of situations. More recently, it was reported⁴ that the characteristics of career stage (rank) significantly affect one's attitudes and job behavior. For example, several authors^{5,6} have noted that during midcareer periods, the importance of career involvement typically declines in response to either internal pressure (e.g., perceived lack of advancement opportunities) or external pressure (e.g., expanded family responsibilities). Additionally, it has been reported that occupational differences may also affect the psychological climate within an organization.^{7,8} That is, significant differences observed within the organization may also be a function of the range of career opportunities available to members in different occupational groups. These findings support the need for the examination of perceptions and attitudes of personnel in terms of both career stage and occupational category.

Therefore, understanding certain complexities of military organizations entails an assessment of the perceptions and attitudes of its membership. The purpose of the present study is to assess the attitudes and perceptions of officers within the U.S. Navy Dental Corps as a function of occupational specialty, career stage, and gender. The assessment in this report will be based on the narrative-response portion of the 1994 survey of U. S. Navy Dental Corps officers.

METHODS

Sample

An anonymous survey was mailed to all active-duty Dental Corps officers (N = 1,444). A total of 915 officers (63%) responded to the survey. As shown in Table 1, the majority of the respondents were Caucasian (91%) and male (89%). Twenty-four percent of the sample were active-duty reservists (designator 2205). The mean age of the respondents was 39 years, with a range from 25 to 61 years. Three fifths of the respondents were lieutenants (27%) or lieutenant commanders (33%), and two fifths were commanders (20%) or captains (20%). The distribution of the respondents by subspecialty was as follows: general dentistry (41%), comprehensive dentistry (20%), exodontics or oral/maxillofacial surgery (9%), prosthodontics (9%), periodontics (6%), endodontics (6%), oral medicine/diagnosis (2%), operative dentistry (2%), and other (5%). (The "other" category represents subspecialties with too few respondents for reliable analyses by subspecialty.) A listing of respondent primary subspecialty by education or experience level is presented in Appendix A. Approximately 57% of the sample had received a one-year program of advanced education (e.g., General Practice Residency, Advanced Clinical Program) and 42% had participated in a two-or-moreyear program (e.g., residency). As Table 1 indicates, the sample was highly representative of the population of Navy Dental Corps officers on key demographic factors.

Table 1 Demographic Summary Population N = 1,444* Survey N = 915 (63%)

(Desigr	nator
	Pop %	Sample %
2200	69	76
2205	31	24

(Age	
	<u> Pop %</u>	Sample %
Mean	32	39
Std Dev	7.5	7.4
Range	24 - 61	25 - 61

	Rar	nk
	<u> Pop %</u>	Sample %
LT	33	27
LCDR	33	33
CDR	18	20
CAPT	15	20
RADM	<1	<1

Pop % Sample % White 86 91 Black 4 3 Hispanic 3 3 Asian 5 2 Other 2 1		Race					
Black 4 3 Hispanic 3 3 Asian 5 2	P	op %	Sample %				
Hispanic 3 3 Asian 5 2	White	86	91				
Asian 5 2	Black	4	3				
, (6,6,7)	Hispanic	3	3				
Other 2 1	Asian	5	2				
	Other	2	1				

	Gen	der
<u>P</u>	op %	Sample %
Men	87	89
Women	13	

^{*} Population data provided by LT Todd Allen, Med-06C.

Procedure

Based on input from the leadership of the Naval Dental Command and on standardized organizational measures, a 250-item survey was constructed to assess background information, career profile, turnover intent, and perceptions and attitudes regarding a number of Dental Corps issues. To provide some direct comparability to the earlier survey conducted in 1990, items from that survey were included in the 1994 survey. To enhance both objective assessment and comprehensive coverage of Dental Corps issues, both quantitative items, using Likert-type rating scales, and qualitative items, using semistructured narrative responses, were included. The Chief of the Dental Corps reviewed the content of the final questionnaire. A copy of the questionnaire is provided in **Appendix B**.

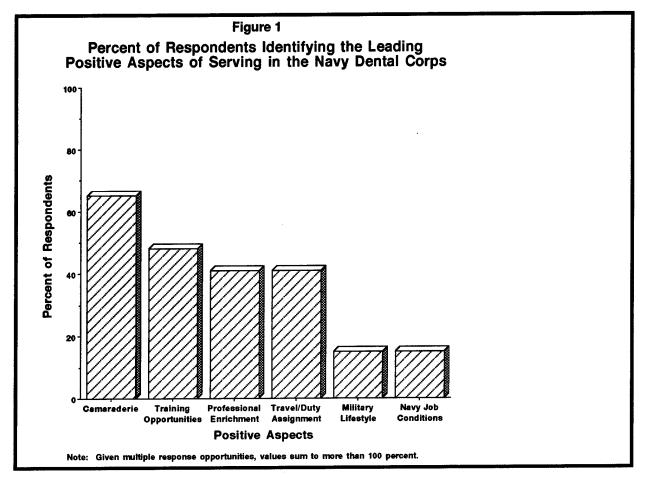
In June 1994, the anonymous survey was mailed to all active-duty Navy Dental Corps officers. Privacy Act issues were addressed in a cover letter from the Chief of the Navy Dental Corps. As the surveys were returned to NHRC, the narrative responses were segregated for content analysis. Additionally, all anonymous narrative responses were detached from the survey, photocopied, and forwarded to the Chief of the Dental Corps. The narrative responses addressed: (a) the most positive aspects of serving in the Dental Corps, and (b) the aspects of the Dental Corps most in need of improvement. These narrative items were also part of the 1990 survey. For reasons of continuity and comparability between the 1990 and 1994 survey data, the coding categories developed from content analysis of the 1990 survey were used as the starting point for the 1994 content analysis. The development of that coding scheme in 1990 involved an iterative process. In the first phase, a list of narrative responses was made from the first 600 surveys that were returned. These responses were grouped into categories on the basis of content similarity. Any subsequent responses that were not yet represented became new categories. Each category was assigned a unique numerical code. When a facet of a coded category became specified by enough respondents, it was given a new code to allow for a subsequent assessment of the proportion of comments that specified that facet. For example, many respondents identified "leadership" as an issue without providing details; many others specified a leadership facet, such as morale or performance evaluation. Hence, separate codes evolved for facets within a category as well as for new categories. As the 1994 content analyses progressed using the same process, the coding scheme remained basically unchanged. At the end of the coding process, an inter-rater reliability test was conducted between two independent coders on a 10% sample of the data. This analysis produced a significant Cohen's kappa of .81 (p < .001) and indicated that the coding process was highly reliable. Sample comments within each category are presented in **Appendix C**.

RESULTS

Perceptions and Attitudes

This section describes analyses conducted on the qualitative (narrative) responses. Qualitative responses were provided by a total of 96% (n = 877) of all survey respondents. First, response rates for the most positive aspects of Navy dentistry will be presented, including results by rank, sex, and subspecialty. Then, response rates for those aspects of Navy dentistry identified as most in need of improvement will be presented.

Positive Aspects. Narrative response opportunities allowed Dental Corps officers both to identify issues and to express their views about them. As shown in Figure 1, results of analyses of responses to the most positive aspects of serving in the Dental Corps indicated that the leading positive aspects were: (a) professional/social camaraderie (65%), (b) training/educational opportunities (48%), (c) on-the-job professional enrichment (41%), (d) opportunities for travel or particular duty assignments (41%), (e) the personal fulfillment of a military/patriotic lifestyle (15%), and (f) certain Navy-related job conditions (15%). Appreciation for camaraderie was expressed in terms of esprit de corps, supportive coworker attitudes, competent coworkers, consultation accessibility, lasting friendships, and other expressions of both professional and social support. Expressions of appreciation for training opportunities included referents to the quality of professional training, the value of officer training, access to continuing education, support in pursuing a specialty residency, and the opportunities for specific training programs. Professional enrichment expressions included concepts of variety (e.g., leadership opportunities, multiple career pathways, clinical rotation opportunities), challenge (e.g., personal growth, professional growth), and working conditions (e.g., opportunities not available to civilians, job satisfaction, job enjoyment, recreational activities). Travel opportunity appreciation encompassed the rewards of cultural exposure, operational tours, shipboard experience, overseas life, specific duty stations, and being "on the move." Military lifestyle appreciation was reflected by comments about service to the country, support of our fighting forces, pride in the



uniform, or dedication to the Navy or the Dental Corps. The Navy-related job conditions that were specified included absence of malpractice and overhead expenses, a ready patient population, freedom from payment-collection concerns, provision for sick leave and vacation time, and the opportunity for early-age retirement.

An inspection of the rank order of the response percentages of the positive aspects by military rank (**Figure 2**) indicated a general consistency across rank. Deviations involved adjacent categories except for lieutenants. Lieutenants identified both camaraderie (52%) and training opportunities (38%) less frequently than did the other military ranks, but identified professional enrichment (46%) and Navy job conditions (23%) more frequently.

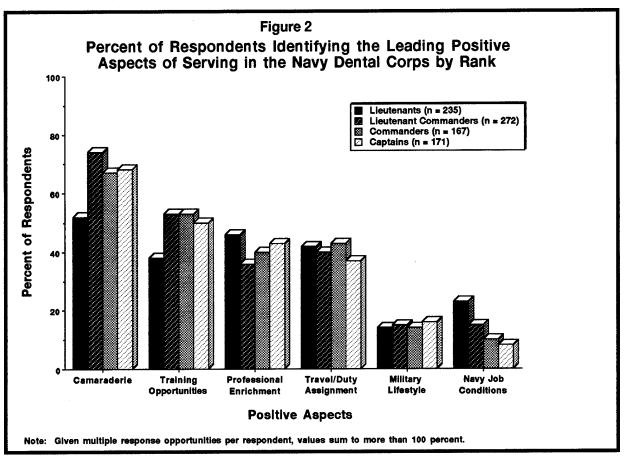


Figure 3 presents response percentages for the leading positive aspects by gender. The frequency of responses matched on camaraderie (65%). However, more men (49%) identified training opportunities as a leading positive aspect than did women (39%), and more women (22%) identified Navy-related job conditions than did men (14%). However, the four most positive aspects were the same for men and women, each more than 38% of respondents.

Table 2 presents response percentages for the leading positive aspects of serving in the Dental Corps by subspecialty. While general consistency was exhibited in the rank ordering of leading aspects across the subspecialties, more periodontists and oral diagnosticians identified training opportunities (67%) than the other subspecialties. General practitioners identified training opportunities (38%) less often while ranking

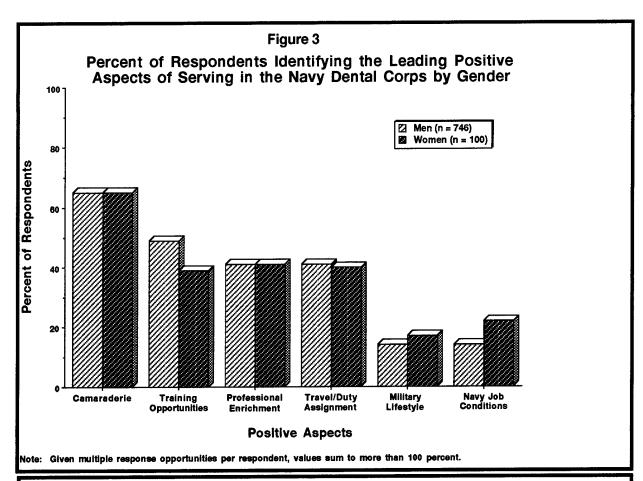


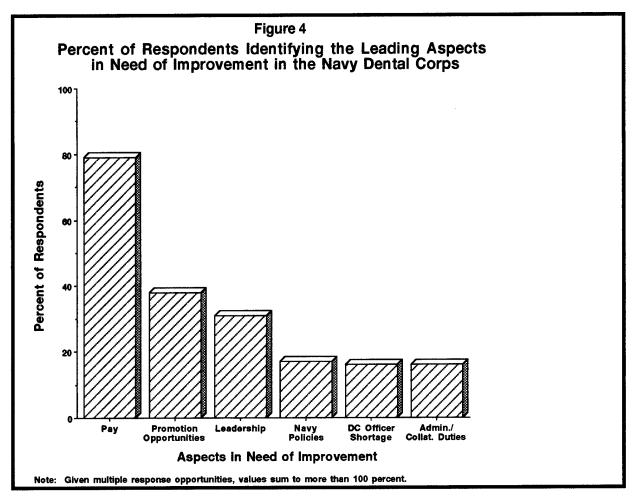
Table 2
Percent of Respondents Identifying the Leading Positive
Aspects of Serving in the Navy Dental Corps by Subspecialty

		LEADING POSITIVE ASPECTS						
SUBSPECIALTY	CAMARADERIE	TRAINING OPPORTUNITIES	TRAVEL/DUTY ASSIGNMENT	PROFESSIONAL ENRICHMENT	MILITARY LIFESTYLE	NAVY JOB CONDITIONS		
GENERAL DENTISTRY N = 630, n = 343	61	38	44	44	15	20		
COMPREHENSIVE DENTISTRY N = 265, n = 175	69	49	37	43	17	`11		
ORAL/MAXILLOFACIAL SURGERY N = 148, n = 73	73	64	40	30	12	11		
PROSTHODONTICS N = 129, n = 78	72	56	36	35	9	9		
PERIODONTICS N = 88, n = 49	69	67	45	39	6	18		
ENDODONTICS N = 86, n = 47	77	60	38	30	15	9		
ORAL MEDICINE/ DIAGNOSIS N = 21, n = 12	75	67	50	33	17	17		
OPERATIVE DENTISTRY N = 20, n = 13	62	62	8	46	8	0		
OTHER N > 72, n = 39	51	51	33	49	28	15		

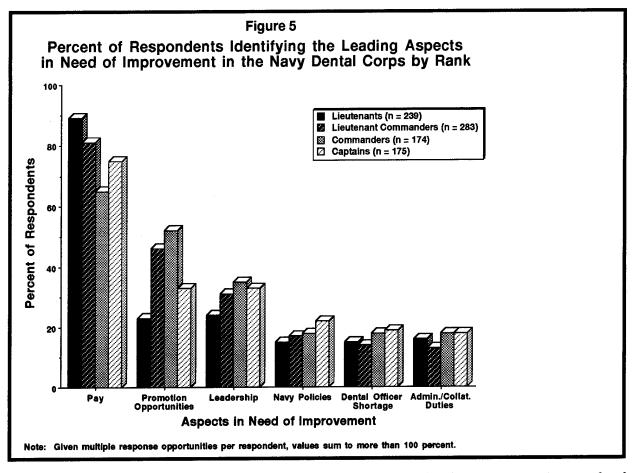
Note: Totals sum to more than 100 percent due to multiple response options.

on-the-job enrichment relatively high (2nd/3rd, at 44%). Oral diagnosticians identified travel/duty assignments the most frequently (50%), while operative dentists identified it the least (8%), creating the greatest difference (42%) between categories.

Aspects in Need of Improvement. Comments regarding the three aspects of the Navy Dental Corps judged most in need of improvement were also analyzed (Figure 4). The leading aspects of the Dental Corps identified as needing improvement were pay (e.g., inadequacies, inequities, need for debt relief; 79%), promotion (e.g., restrictions, inequities; 38%), and leadership (e.g., quality, quantity, style, structure, Total Quality Management [TQM] implementation, performance evaluations; 31%). Aspects identified less frequently included: (a) current Navy policies (e.g., regarding civilian contractors, military budget allocations, the Defense Officer Personnel Management Act [DOPMA], equal opportunity practices, Dental Corps autonomy; 17%), (b) the shortage of chairside Dental Corps officers (16%), and (c) the excess of administrative or collateral-duty requirements (16%).



Although the rank ordering of response percentages for the leading aspects in need of improvement are generally consistent across ranks, interesting differences appear to exist (**Figure 5**). Lieutenants, for example, tend to emphasize pay more often (89%) than do other ranks. This is likely related to educational debt, which, for lieutenants, is an average of \$48,999. Additionally, lieutenant commanders (46%) and commanders (52%) appear to be more concerned with lack of promotion opportunities than are lieutenants (23%) or captains (33%).



An examination of the results by gender for the leading aspects in need of improvement revealed no rank-ordering differences in the top four responses (**Figure 6**). However, fewer women identified pay (71%) than did men (80%), irrespective of marital status, as well as promotion (35% vs. 39%), and more identified leadership issues (34% vs. 30%).

Oral surgeons (88%), endodontists (85%), and operative dentists (85%) identified pay issues more frequently than the other subspecialties (**Table 3**). More oral diagnosticians identified chairside staffing shortage (ranked 3rd at 53%), promotion opportunity (60%), and, along with periodontists (22%), administrative/collateral-duty requirements (20%). Oral diagnosticians (13%) identified leadership issues less than other subspecialities.

DISCUSSION

As a means of assessing organizational issues, the qualitative item in a questionnaire has the advantages of efficiently allowing the respondent to define the issues, rather than to select from a predefined set, and to elaborate on why or how each issue affects him/her. Those advantages are, in part, offset by the limitations imposed by analysis of narrative content, which involves analyst interpretation and judgment. Though the process includes measures to minimize subjectivity (well accomplished in the present study, evidenced by the Cohen's kappa coefficient of .81), it also requires that judgments

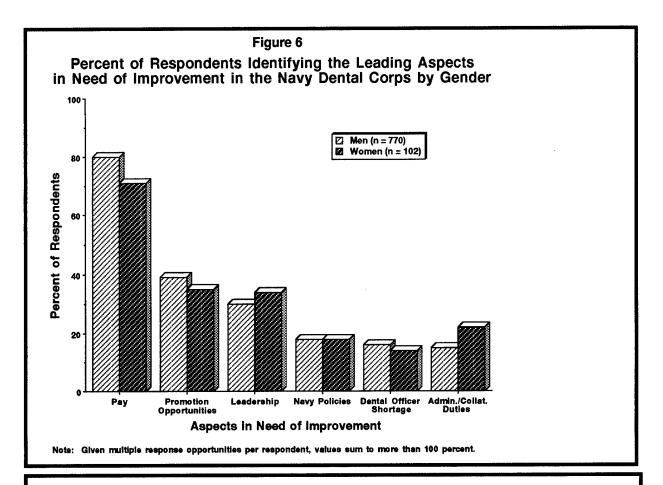


Table 3
Percent of Respondents Identifying the Leading Aspects in Need of Improvement in the Navy Dental Corps By Subspecialty

	LEADING ASPECTS IN NEED OF IMPROVEMENT								
SUBSPECIALTY	PAY	PROMOTION OPPORTUNITY	LEADERSHIP	NAVY POLICIES	DENTAL OFFICER SHORTAGE	ADMIN./ COLLAT. DUTY REQUIREMENTS			
GENERAL DENTISTRY N = 630, n = 351	83	83 31 28 72 46 32		15	15	18			
COMPREHENSIVE DENTISTRY N 265, n = 175	72			26 17		14			
ORAL/MAXILLOFACIAL SURGERY N = 148, n = 77	88	40	25	17	21	10			
PROSTHODONTICS N = 129, n = 80	n = 80 NOTICS 66 40		31	19	14	14			
PERIODONTICS N = 88, n = 50			42	12	16	22			
ENDODONTICS N = 86, n = 52	85	52	40	10	17	13			
ORAL MEDICINE/ DIAGNOSIS N = 21, n = 15	80	60	13	13	53	20			
OPERATIVE DENTISTRY N = 20, n = 13	85	31	31	23	8	0			
OTHER N > 72, n = 41	73	46	46 37		15	17			

Note: Totals sum to more than 100 percent due to multiple response options.

be made about overlapping concepts (e.g., consider the overlap of the concepts included in a job-security concern elaborated on in terms of limited opportunities for promotion in the post-DOPMA Navy under circumstances of an evaluation process that is perceived to weigh administrative performance more heavily than clinical.) Thus, comprehensive coverage is gained at the expense of more objective analysis.

Nonetheless, the qualitative approach to assessing organizational issues can yield both valid and informative results. The results of this survey strongly echo the 1990 results. Once again, camaraderie, training opportunities, professional enrichment, and travel opportunities were the leading positive issues. It is clear from the replication of results that these four aspects of the Dental Corps are still available and are well appreciated by Dental Corps membership.

However, there are also some apparent differences between the results obtained in the present study and the study conducted in 1990, which had a 70% response rate. Specifically, under the leading positive issues, the percent of respondents citing the quality of delivered care decreased from 20.5% in 1990 to 11.0% in 1994. This decrease may reflect a drop in relative satisfaction and/or in relative personal importance. Other noteworthy changes occurred under the leading aspects in need of improvement. The percent of respondents indicating dissatisfaction with enlisted staffing (19.6%) and dissatisfaction with the competence of enlisted staff (14.7%) reported in 1991 decreased to 8.0% and 9.0%, respectively. This decrease in the percent of dissatisfaction would appear to be a positive change in the area of support staff. With regard to the current study, the emergence of Dental Corps officer shortage and Navy policies points to a shift in concerns that may warrent closer examination.

This study points to the value of examining organizational issues as a function of career stage and occupational specialty. In addition to considering aspects the membership finds rewarding, a rounded assessment of organizational climate also invites feedback on those aspects the membership finds problematic. Clearly, the overriding issue for Dental Corps officers continues to be pay -- the only issue targeted by a majority of the respondents in 1990 (52%) and again in 1994 (79%). Furthermore, the substantive jump in the proportion of respondents specifying pay concerns identifies it as a growing problem. The tone of the responses that elaborated on pay objections ranged from resentment over perceived inequities, especially vis-a-vis civilian counterparts or Medical Corps officers, to frustration, to anger, and to despair from feeling overwhelmed by educational-loan debt. Many comments requested increases in salaries, bonuses, professional pay, or specialty pay, or recommended an effective loan deferment program. As suggested in 1990, Dental Corps leadership, in addition to supporting the aggressive pursuit of pay concessions from Congress, could help ameliorate this problem by convincing Dental Corps members of their awareness of the hardship involved and of their resolve to alleviate it.

Also continuing to be a critical issue for Dental Corps officers is promotion opportunity. It is the second leading issue again, as identified by 39% of respondents in 1990 and 38% in 1994. Respondents expressed concern in terms of restricted promotion

opportunities, insufficient objectivity in the evaluation process, and overemphasis on nonclinical criteria. In today's Navy, failure to get promoted may engender involuntary loss of military employment. The 1990 analysis, which included narrative responses regarding the primary reasons for one's career intent, identified pay or lack of promotion opportunity as the primary reason for intent to separate from active duty for 53% of lieutenants and lieutenant commanders. That these two leading issues are so removed from the direct control of Dental Corps leadership all but forces the recourse to creative problem-solving in addressing them.

Leadership, the last of the notable leading issues for improvement, grew from a concern for 18% of 1990 respondents to 31% of 1994 respondents. More so than most, this category of response captured many overlapping concepts, some of which were deliberately segregated, namely into categories for dissatisfaction with morale, recognition/support, or career guidance. Not segregated were concepts specifying dissatisfaction with TQM implementation, with evaluation implementation, with topheavy leadership structure, and with the perceived quality or competence of leaders, especially in terms of supplying appropriate communication, posing as positive role models, delegating authority, exercising objectivity, practicing fair treatment, and promoting teamwork. All combined, 44% of the respondents targeted these leadership concepts with the following breakdown of overlapping concepts: morale, 4%; recognition/support, 14%; career guidance, 6%; TQM, 3%; performance evaluations, 11%; all others, 21%. (Note that due to multiple response opportunity, these figures are not strictly additive.) Hence, the encompassing nature of leadership contributes to its high response rate. Perhaps, the notion to weigh more heavily additional leadership training as a promotion criterion is the start of a creative solution to two of the three leading issues for Dental Corps officers.

The results of this study provide an assessment of the perceptions and attitudes of Dental Corps officers. The method allowed Dental Corps officers to define organizational issues from their viewpoint. They identified camaraderie, training opportunities, professional enrichment, and travel opportunities as particularly rewarding aspects of naval dentistry. They also identified pay, promotion, and leadership as leading concerns. Their feedback can serve as valuable information to Dental Corps leaders tackling policy evaluation, issue identification, and organizational planning. Analysis of the survey's quantitative data will be covered in a subsequent report.

REFERENCES

- 1. Nice, D.S., & Hilton, S.M. (1991). <u>U.S. Navy Dental Corps Officer Survey: Perceptions, Attitudes, and Turnover Intent</u>. (Technical Report No. 91-14). San Diego, CA: Naval Health Research Center.
- 2. Nice, D.S., Tarquinio, G., & Hilton, S.M. (1991). Results of Dental Corps officer survey. Navy Medicine, 82: 26-30.
- 3. Jones, A.P., & James, L.R. (1979). Psychological climate: Dimensions and relationships of individual and aggregate work environment perceptions. <u>Organizational Behavior and Human Performance</u>, 23, 201-250.
- 4. Slocum, J.W., & Cron, W. (1985). Job attitudes and performance during three career stages. <u>Journal of Vocational Behavior</u>, <u>26</u>, 126-145.
- 5. Levinson, D.J., Darrow, C.N., Klein, E.R., Levinson, M.H., & McKee, B. (1978). <u>The Seasons of a Man's Life</u>. New York: Knopf.
- 6. Schein, E.H. (1983). Individuals and careers. In J. Borsch (Ed.), <u>Handbook of Organizational Behavior</u>. Englewood, N.J.: Prentice-Hall.
- 7. Mount, M. (1984). Managerial career stage and facets of job satisfaction. <u>Journal of Vocational Behavior</u>, <u>24</u>, 340-356.
- 8. Stumpf, S., & Rabinowitz, S. (1981). Career stage as a moderator of performance relationships with facts of job satisfaction and role perceptions. <u>Journal of Vocational Behavior</u>, 18, 202-218.

Appendix A

Respondent Primary Subspecialty By Education Level

			P	Percent					
	۵	S:		V:	ä	K:	missing		
	DDS/	Significant	Master's	Formal	Fully	Board	data	Tot	핕
Subspecialty	DWD	Experience	Degree	Preparation	Trained	Certified	u	u 8	18 4
700 General Dentistry	37	38	∇	17	R	2	40	363	41
1725 Comprehensive Dentistry	0	14	7	37	22	22	က	183	20
[750 Oral/Maxillofacial Surgery	0	18	0	21	22	39	-	2 8	6
1769 Prosthodontics	П	13	7	6	29	17	4	81	6
1760 Periodontics	0	ιυ	2	6	40	44	0	22	9
1710 Endodontics	0	œ	7	26	34	30	0	23	9
1745 Oral Medicine/Diagnosis	0	7	0	7	7	23	0	15	7
1740 Operative Dentistry	∞	0	œ	0	42	42	7	14	7
1795 Pediatric Dentistry	0	0	0	0	82	18	0	11	_
1735 Orthodontics	0	0	0	0	71	53	0	^	-
1720 Dental Education Programs	25	50	0	25	0	0	က	7	-
1775 Public Health Dentistry	0	0	33	17	17	33	0	9	_
1780 Oral Pathology	0	0	0	0	40	09	0	ī	_
1730 Maxillofacial Prosthodontics	0	0	0	0	20	20	0	4	⊽
1790 Dental Science and Research	0	0	0	0	100	0	0	_	⊽
1806 Health Care Management	0	100	0	0	0	0	이	٦	⊽
Tota	al:						23	- :	001

Appendix B A Copy of the Dental Corps Survey

DENTAL CORPS SURVEY

Privacy Act Statement

1. Authority. 5 USC 301, 10 USC 1071. 2. Purpose. Medical research information will be collected to enhance basic medical knowledge or to develop tests, procedures, and equipment to improve the diagnosis, treatment, or prevention of illness, injury or performance impairment. 3. Use. Medical research information will be used for statistical analyses and reports by the Departments of the Navy, Defense, and other U.S. government agencies, provided this is compatible with the purpose for which the information was collected. Use of the information may be granted to non-Government agencies or individuals by the Chief, Bureau of Medicine and Surgery, in accordance with the provisions of the Freedom of Information Act. 4. Disclosure. I understand that all information derived from the study will be retained at the Naval Health Research Center, San Diego, and that my anonymity will be maintained. I voluntarily agree to its disclosure to agencies or individuals identified in the preceding paragraph, and I have been informed that failure to agree to such disclosure may negate the purposes of the study.

_			
	Subspecialty Codes: (for item #2, below)		
	1710 Endodontics 17 1720 Dental Education Programs 17 1725 Comprehensive Dentistry 17	745 Oral Medicine/Oral Diagnosi 750 Oral and Maxillofacial Surge 760 Periodontics 769 Prosthodontics 775 Public Health Dentistry	
	Suffix Codes (for item #2, below; select the letter	er which best applies):	
		- Board Certified - Masters Level of Education	S - Significant Experience V - Formal Preparation
Dir mo	ections: The following questions concerst appropriate answer or provide the indicated in th	rn your general backgroun cated written response.	nd. Please <u>circle the number</u> corresponding to the
1.	Rank: O		f you are currently married, what is the highest
2.	Subspecialty Codes (Enter code numb list above for assistance): Subspecialty Suffix	ers; refer to 1 2 3	evel of education of your spouse? . N/A; not currently married . High school graduate . Some college
	Primary:	5 6 7	Bachelor's degree Some graduate work Master's degree Post-master's work Doctorate degree
3.	What is your designator?		. Post-doctorate study
	 2200 (USN) 2205 (USNR) Other; enter the number: 		ducation: ental degree (DDS/DMD): 1. Yes 2. No pecialty Certificate: 1. Yes 2. No
4.	Age:		asters-level degree (MA/MS): 1. Yes 2. No
5.	Sex: 1. Male 2. Female (circle	one)	h.Dlevel degree: 1. Yes 2. No
6.	Marital Status:	11.Yo	ear you graduated from dental school:
	1. Single		19
	 Married Separated/Divorced Other; specify: 		nd of Active Obligated Service (if 2205) or DOPMA f 2200): 19
7.	Race:	13. H	ow long have you been on active duty as a Dental
	 White Black Asian Hispanic Other: 	· · · · · ·	orps officer? Years + Years Months
8.	Number of dependent children living in y primary residence. (If none, enter zero	(S.)	re you presently serving overseas? . Yes
	(Ages 1-12) (Ages 13-17)		. No OPNAV Report Control Number 1000-1

15. Did the Navy provide financial assistance toward your basic dental education?	22. Current Duty Station (Circle the most appropriate option):
1. Yes 2. No	Annex dental clinic Branch dental clinic
16. Have you received advanced dental education?	Headquarters dental clinic Naval dental school staff
One-year program (e.g., GPR, ACP): 1. Yes, In-service 2. Yes, civilian	5. Hospital staff6. GPR, Specialty Residence or ACP7. Sea duty8. FMF duty
3. No	9. Mobile construction battalion 10. Other staff duty (e.g., BUMED, NMPC)
Two-or-more-year program (e.g., dental residency): 1. Yes, In-service 2. Yes, civilian 3. No	11. Other, specify:
17. Did the Navy provide financial assistance	23. Years served in each duty assignment during Navy career (Round to nearest year):
for your advanced dental education? One-year program (e.g., GPR, ACP): 1. Yes	Annex dental clinic Branch dental clinic Headquarters dental clinic
2. No 3. Not applicable	Naval dental school staff Hospital staff
Two-or-more-year program (e.g., dental residency):	GPR, Specialty Residence or ACP Sea duty
1. Yes 2. No	FMF duty Mobile construction battalion
3. Not applicable	Other staff duty (e.g., BUMED, NMPC) Other, specify:
18. What is your current level of debt that you owe for the cost of your education? (If none, enter "0.")	24. Current Billet (Circle the most appropriate option):
1. \$,	Assistant Dental officer Dental officer
19. On the average, how many hours per week do you	3. Director, dental services
spend on each of the following?	Head, annex dental officer Department head
<u>HrsWk</u> Direct patient care	6. Branch director
Direct patient care Training (Dental CE, BLS and ATLS, etc.)	7. Executive Officer
Collateral duties (e.g., QA/RM coordinator,	8. Commanding Officer
committees, etc.)	9. Staff officer (e.g., BUMED, NMPC, HSETC) 10. Naval dental school staff
All other organizational/professional duties (Duty, meetings, etc.)	11. Other:
Total hours worked per week	25. Years served in each capacity during Navy career
20. Overall, your physical health is:	(Round to nearest year):
1. Excellent	Assistant Dental officer Dental officer
2. Good	Derital officer Director, dental services
Average Below average	Head, annex dental officer
5. Poor	Department head
	Branch director Executive Officer
21. How many people do you <u>directly</u> supervise?	Commanding Officer
1. None	Staff officer (e.g., BUMED, NMPC, HSETC) Naval dental school staff
2. 1 - 3	Other:
3. 4 - 6 4. 7 - 9	
5. 10 or more	26. Total number of years assigned overseas duty:
	years. (Round to nearest year.)

27. To what extent does the position you currently occupy match your level of training, experience, and ability?	How does your spouse, parent, or whoever is most important to you, feel about you being in the Navy? (Circle only one):
1. Not at all 2. To a small extent 3. To some extent 4. To a great extent 5. To a very great extent 28. Prior to your Dental Corps commission, how much military experience did you have? (Circle one per column.) Enlisted None Officer 1. None	 Wants me to get out as soon as possible. Thinks I should get out but says it's up to me. Doesn't care one way or the other. Thinks I should stay in but says it's up to me. Thinks the Navy is a good career choice. If given the opportunity, during the next year you would: (circle only one) Definitely leave the Dental Corps. Probably leave the Dental Corps.
2. <1 year 2. <1 year 3. 1 - 4 years 3. 1 - 4 years 4. 5 - 8 years 5. 9 or more years 5. 9 or more years	3. Not sure about leaving or staying with the D.C. 4. Probably stay with the D.C. for the next year. 5. Definitely stay with the Dental Corps.
	5. What are your plans to stay with the Navy? (Circle one.)
The following seven items refer to different feelings individuals may have about remaining in the Navy. Please circle the number that best describes your feelings at the present time.	 I intend to stay until I retire. I will leave only if an excellent opportunity turns up. I will leave if something better turns up elsewhere. I will leave unless something better turns up here. I intend to leave as soon as possible.
If you stay in the Dental Corps through the next year, how likely is it that your career/professional needs will be met?	6. How likely is it that you can leave your job with the Navy and get one like it somewhere else?
1. Very likely 2. Likely	Not at all likely Somewhat unlikely
Neither likely nor unlikely	3. As likely as not
4. Unlikely 5. Very unlikely	4. Likely 5. Very likely
If you left the Dental Corps, would you stay in your same type of work (i.e., general dentistry,	7. Do you plan to augment?
endodontics, periodontics)?	(Not applicable) Definitely year
1, Definitely yes 2. Probably yes ♣	Definitely yes Probably yes
3. Do not know	4. Do not know
4. Probably no 5. Definitely no	5. Probably no6. Definitely no
Use the scales provided to rate the degree with which you a	
Strongly	Strongly
Agree Agree Neut	₹
1 2 3	4 5
2. Fitness reports provide a candid assessment of	oromotability to promotion/selection boards and detailers. of an officer's strengths and weaknesses. against each other is an effective grade-inflation control.
4. I feel that junior officers should be ranked.	
	information on performance that helps promotion/selection
boards and detailers assess an officer's promo	
7. The narrative section of the fitness report is us	sually well written and provides promotion/selection boards
and detailers with useful and accurate informa	
of duty stations.	adverse effects upon my selection for promotions or choice
9. I feel that fitness reports are an objective and	unbiased way to assess an officer's promotability and
performance.	-3-

Please answer each question by circling the number that best describes how things have been going on the job for you during the prior week.

During LAST WEEK, how well were you doing at:

	Extremely Poor	/ Poor	Somewhat Below Average	All Right	Somewhat Above Average	Very Well	Extremely Well
Handling daily responsibilities and demands of your work?	1	2	3	4	5	6	7
2. Making the right decisions?	1	2	3	4	5	6	7
3. Performing without mistakes?	1	2	3	4	5	6	7
4. Getting things done on time?	1	2	3	4	5	6	7
Getting along with others at work?	1	2	3	4	5	6	7
6. Avoiding arguments with others?	1	2	3	4	5	6	7
Handling disagreements by compromising and meeting people half-way?	ng 1	2	3	4	5	6	7

Please use the scale on the <u>left</u> to rate your **satisfaction** with each of the following aspects of the Navy Dental Corps. Use the scale on the <u>right</u> to rate the **importance** of each item in your decision to remain in the Navy or separate/retire. If you are close to retiring, how important has each been in your decision to stay in the Navy? (Circle one number per item per scale.)

Very Dissatisfied		Undecided		Very Satisfied		Not at all important	U	ndecided		Very Important
1	2	3	4	5	Educational opportunities	1	2	3	4	5
1	2	3	4	5	Professional camaraderie	1	2	3	4	5
1	2	3	4	5	Travel	1	2	3	4	5
1	2	3	4	5	Job security	1	2	3	4	5
1	2	3	4	5	Retirement benefits	1	2	3	4	5
1	2	3	4	5	Military lifestyle	1	2	3	4	5
1	2	3	4	5	Pay	1	2	3	4	5
1	2	3	4	5	Healthy patient population	1	2	3	4	5
1	2	3	4	5	Medical benefits	1	2	8	4	5
1	2	3	4	5	Promotion opportunities	1	2	3	4	5
1	2	3	4	5	Personal recognition	1	2	3	4	5
1	2	3	4	5	Job challenge and variety	1	2	3	4	5
1	2	3	4	5	Family-life compatibility	1	2	3	4	5
1	2	3	4	5	Equipment and facilities	1	2	3	4	5
1	2	3	4	5	PCS moves	1	2	3	4	5
1	2	3	4	5	Professional growth	1	2	3	4	5
1	2	3	4	5	Dental technical support staff	1	2	3	4	5
1	2	3	4	5	Quality of auxiliary help	1	2	3	4	5
1	2	3	4	5	<u>Availability</u> of auxiliary help	1	2	3	4	5
1	2	3	4	5	Quality of laboratory support	1	2	3	4	5
1	2	3	4	5	Availability of laboratory support	1	2	3	4	5
1	2	3	4	5	Quality of administrative support	1	2	3	4	5
1	2	3	4	5	Availability of administrative support	1	2	3	4	5
1	2	3	4	5	Quality of equipment repair support	1	2	3	4	5
1	2	3	4	5	Availability of equipment repair suppo	ort 1	2	3	4	5
1	2	3	4	5	Infection control procedures	1	2	3	4	5
					-4-					

Please use the following scale to rate your agreement or disagreement with one number for each question):	h each of the	follow	ing statem	ents (d	pircle
	Strongly Disagree	Un	decided		rongly Agree
Even after overhead expenses, I could make much more money in the private sector.	1	2	3	4	5
2. I have too many collateral duties.	1	2	3	4	5
3 The Navy Dental Corps provides excellent training opportunities.	1	2	3	4	5
Navy dental residency programs are as good as or better than civilian dental residency programs.	1	2	3	4	5
 The 4-year time-in-service eligibility requirement for Navy dental residency programs is too long. 	1	2	3	4	5
 I am satisfied with the career planning guidance I have received from my <u>assignment</u> officer. 	1	2	3	4	5
 I am satisfied with the career planning guidance I have received from my <u>career development</u> officer. 	1	2	3	4	5
8. My job interferes with my family life and responsibilities.	1	2	3	4	5
This command provides a very high quality of dental care.	1	2	3	4	5
10. I would like a greater opportunity to do research.	1	2	3	4	5
11. My work day is too long.	1	2	3	4	5
12. I currently perform the job I was professionally trained to do.	1	2	3	4	5
13. Promotion requirements in the Dental Corps are clearly understood.	1	2	3	4	5
 Junior officers in the Dental Corps receive Permanent Change of Station assignments too frequently. 	1	2	3	4	5
 Junior officers in the Dental Corps receive operational assignments too frequently in their careers. 	1	2	3	4	5
 All specialties in the Dental Corps receive equal and fair treatment regarding career advancement opportunities. 	1	2	3	4	5
 The equipment used in Navy dentistry is adequate for providing good health care. 	1	2	3	4	5
 I am concerned about acquiring an infectious disease from a patient (e.g., AIDS). 	1	2	3	4	5
19. I am concerned about retaining my Navy position during downsizing.	1	2	3	4	5
 The Dental Corps could increase retention by offering better financial incentives. 	1	2	3	4	5
 The Dental Corps should develop and implement an educational loan payback program for officers who augment or who remain on active duty for 20 years. 	1	2	3	4	5
 The Dental Corps should reinstate its pay credit policy for completing four years of dental school. 	1	2	3	4	5
23. Navy Dental Corps specialty pay should be adjusted to match civilian pay levels for like specialties5-	1	2	3	4	5

Circle the number corresponding to the most appropriate answer.

Have you received any formal training on Total Quality Leadership (TQL)?	1. Yes	2. No
2. Do you feel that your command utilizes any of the principles of TQL?	1. Yes	2. No
Do you utilize any of the principles of TQL?	1. Yes	2. No
4. Are you satisfied that TQL will contribute positively to the Navy work environment?	1. Yes	2. No

The following issues have been suggested as major concerns to individuals as they progress through their career. Please rate each of the following issues according to the importance you attach to it <u>at this time</u> in your life. Circle the number which best indicates how you currently feel about the issue.

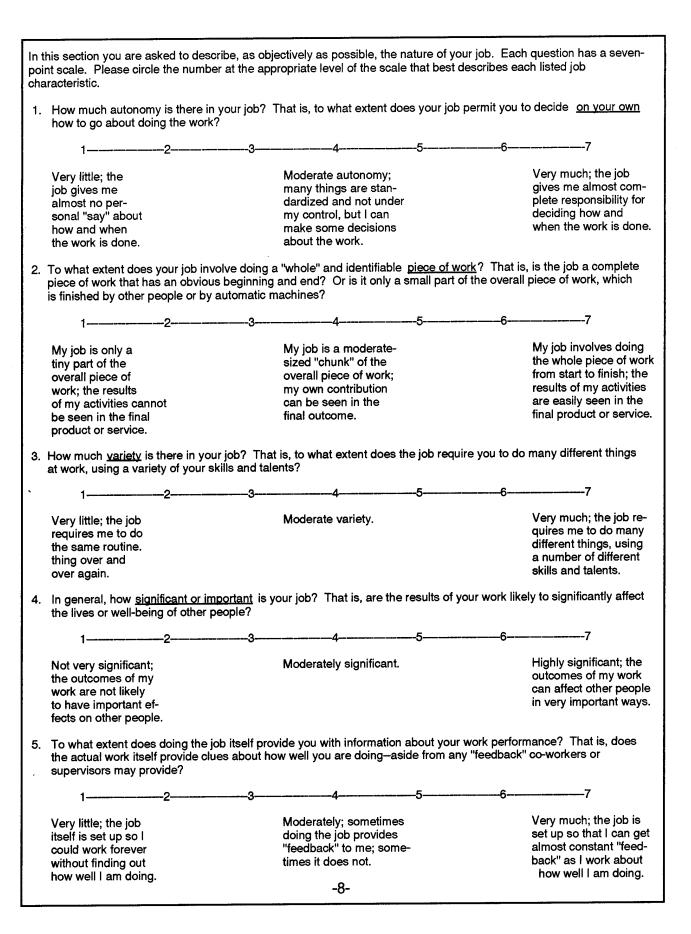
An A A

how yo	ou currently feel about the issue.	An Extremely Important Issue	An Important Issue	A Somewhat of an Issue	A Generally Important Issue	Not at all Important	oo oo oo oo
1.	Achieving financial security after retirement.	1	2		4	5	
2.	Obtaining education and training opportunities.	1	2	3	4	5	
3.	Having good sponsors or mentors who can guide and assist with my career.	1	2	3	4	5	
4.	Preparing for my second career after retirement.	1	2	3	4	5	
5.	Getting the billets that help me to get promoted.	1	2	3	4	5	
6.	Getting good ratings on my fitness report.	1	2	3	4	5	
7.	Feelings of integrity.	1	2	3	4	5	
8.	Achieving my military career goals.	1	2	3	4	5	
9.	Gaining freedom from economic burdens.	1	2	3	4	5	
10.	Gaining greater closeness with family and/or friends.	1	2	3	4	5	
11,	Fulfillment of personal emotional needs.	1	2	3	4	5	
12.	Job security.	1	2	3	4	5	
13.	Adapting to growth and change in my spouse.	1	2	3	4	5	
14.	Opportunities for advancement.	1	2	3	4	5	
15.	Meeting other family needs.	1	2	3	4	5	
16.	Adapting to growth and changes in my children.	. 1	2	3	4	5	
17.	Adapting to changes in society.	1	2	8	4	5	***
18.	Cost of living in different areas.	1	2	3	4	5	
19.	Housing.	1	2	3	4	5	
20.	Medical care.	1	2	3	4	5	
21.	Schools.	1	2	3	4	5	
22.	Churches.	1	2	3	4	5	
23.	Social/recreational opportunities.	1	2	3	4	5	*
24.	Where I live.	1	2	3	4	5	

For the following items, please use the scale provided to rate the degree to which the condition is true for you in your work environment.

		Very true						Very false
1. 2.	I feel certain about how much authority I have. There are clear, planned goals and objectives for my job.	1	2 2	3 3	4 4	5 5	6 6	7 7
3.	I know exactly what is expected of me.	1	2	3	4	5	6	7
4.	I know I divide my time properly.	1	2	3	4	5	6	7
5.	I know what my responsibilities are.	1	2	3	4	5	6	7
6.	Explanation of what has to be done is clear.	1	2	3	4	5	6	7
7.	I receive an assignment without the manpower to carry out an assignment.	1	2	3	4	5	6	7
		- 6-						

Below are a nur these aspects.	mber of different aspects of Place the appropriate numb	organizational per in the blank	life. Please i next to each	ndicate l questio	how much n.	stress y	ou feel be	cause of
No stress			air but					treme
at all	_		e amount	_		•		of stress
1	2	3	4	5		6		7
How much stres	ss is caused by:							
1	Politics, rather than perform	mance, affectin	g organizatio	nal decis	sions.			
2	Not clearly understanding	what is expecte	ed of you on y	our job.				
3	The lack of training and de	velopment opp	ortunities.					
4	Receiving conflicting dema	ands from your	supervisor.					
5	Management not being rec	eptive to input	from the emp	oloyee.				
6	Having too much work to o	lo and not enou	igh time to do	o it.				
7	The quality of supervision	you receive.						
8	The pay that you receive.							
9.		hers.						
10	- · ·		es to their ful	lest exte	ent.			
11.		-						
	High performance standar	- '						
	The lack of job security.							
	Your promotion progress.							
	The way the authority syst	em is structure	d (includina r	eauired i	red tape a	nd paper	work).	
	Deadlines and/or time sch				•	• •	,	
	The nature of the work you							
experience on t	formation provided above, the job: (Circle one number ther or upset you?		e number for b. Inter	"b.") fere with	to what ex			ss you
	not at all to a small extent			ot at all o a small	evtent			
	to some extent			some e				
	to a great extent			a great				
	to a very great extent		5. to	a very	great exte	nt		
When it com what extent it	es to making decisions abo do you <u>seek advice from</u> th	ut your career,	to	Not at	To a small	To some	To a great	To a very great
Wildt extern	ao you <u>occu advice nom</u> an	e following peo	N/A		extent	extent	extent	extent
a.Ape	er		ō	1	2	3	4	5
b. Ase	nior officer nior officer	***************************************	0	1	2 2	3 3	4 4	5 5
	nor onicer r spouse		0	1	2	3	4	5
	ose friend		Ō	į	$\bar{\mathbf{z}}$	3	4	5
	es to making decisions abo do you <u>consider the needs</u>							
c. A jur	eer enior officer nior officer r spouse		0 0 0 0	1 1 1 1	2 2 2 2	3 3 3 3	4 4 4 4	5 5 5 5
	r spouse ose friend	_	0 7-	i	2	3	4	5



Listed below are a series of statements representing possible feelings you might have about the Navy in general or your professional career choice. In the space provided, please circle the number that comes closest to describing your agreement with each of the following items.

agreement with each of the following items.	Strongly		Not		Strongly
	Agree	Agree	Sure	Disagree	Disagree
My chosen occupational specialty gives me a sense of well being.	1	2	3	4	5
2. I have a definite plan for my career.	1	2	3	4	5
Compared to other areas of my life, my chosen career is <u>not</u> very important to me.	1	2	3	4	5
 If I were to describe myself to someone, I would probab begin by stating my occupational specialty. 	ly 1	2	3	4	5
I would accept almost any type of job assignment in order to stay in the Navy.	ler 1	2	3	4	5
6. I am proud to tell others that I am part of the Navy.	1	2	3	4	5
I talk up the Navy to my friends as a great organization to work for.	1	2	3	4	5
8. I have a strategy for achieving my career goals.	1	2	3	4	5
9. I am sometimes dissatisfied with my choice of career fie	elds. 1	2	3	4	5
10. I know what I need to do to reach my career goals.	1	2	3	4	5
11. My personal career objectives are not clear.	1	2	3	4	5
12. If I were to rank (in importance to me) all the things that those things related to my career would be at or near the		2	3	4	5
13. Sometimes I wish I had chosen a different career field.	1	2	3	4	5
14. I identify strongly with my chosen occupational specialty	y. 1	2	3	4	5
15. I have not really decided what my career objectives sho	ould 1	2	3	4	5
For me, the Navy is the best of all possible organization work for.	ns to 1	2	3	4	5
17. I change my personal career objectives frequently.	1	2	3	4	5
18. Deciding to join the Navy was a definite mistake on my	part. 1	2	3	4	5
19. I find that my values and Navy values are very similar.	1	2	3	4	5
20. I get a sense of pride from my chosen occupational spe	ecialty. 1	2	3	4	5
21. Being able to pursue a career in management is very important to me.	1	2	3	4	5
22. Being able to do the kind of work that will contribute to advancing my profession (e.g., occupational specialty) is very important to me.	1	2	3	4	5
It is important to me to be able to publish results of my vin professional journals regardless of its value to the National Department.	work avy 1	2	3	4	5
24. Having a job which permits me to take on progressively more administrative responsibility is important to me.	, 1	2	3	4	5
25. I am extremely glad that I chose the Navy to work for or other organizations I was considering at the time I joine		2	3	4	5
26. I would like to assume a position with more managerial responsibility.	1	2	3	4	5
27. In the long run, I would rather be respected by civilian s ists in my professional field than by my peers in the Na		2	3	4	5
	-9-				

Listed below are a number of statements which could be used to describe a job. Try to be as objective as you can in deciding how accurately each statement describes your job-regardless of whether you like or dislike your job. Write a number in the blank beside each statement, based on the following scale: How accurate is the statement in describing your job? Slightly Slightly Mostly Verv Very Mostly Uncertain Accurate Accurate Accurate Inaccurate Inaccurate Inaccurate 1. The job requires me to use a number of complex or high-level skills. 2. The job is arranged so that I do not have the chance to do an entire piece of work from beginning to end. 3. Just doing the work required by the job provides many chances for me to figure out how well I am doing. 4. The job is quite simple and repetitive. 5. This job is one where a lot of other people can be affected by how well the work gets done. 6. The job denies me any chance to use my personal initiative or judgment in carrying out the work. _7. The job provides me the chance to completely finish the pieces of work I begin. 8. The job itself provides very few clues about whether or not I am performing well. 9. The job gives me considerable opportunity for independence and freedom in how I do the work. 10. The job itself is not very significant or important in the broader scheme of things. Write the appropriate number in the blank beside each statement. How satisfied are you with this aspect of your job? 2 Extremely Extremely Dissatisfied Sliahtly Neutral Slightly Satisfied Satisfied Satisfied Dissatisfied Dissatisfied 1. The amount of job security I have. 2. The amount of pay and fringe benefits I receive. 3. The amount of personal growth and development I get in doing my job. 4. The people I talk to and work with on my job. 5. The degree of respect and fair treatment I receive from my boss. 6. The feeling of worthwhile accomplishment I get from doing my job. 7. The chance to get to know other people while on the job. 8. The amount of support and guidance I receive from my supervisor. 9. The degree to which I am fairly paid for what I contribute to the Navy. 10. The amount of independent thought and action I can exercise in my job. 11. How secure things look for me in the future in the Navy. __12. The chance to help other people while at work. 13. The amount of challenge in my job. 14. The overall quality of the supervision I receive in my work. Use the scales listed below to describe the type of situation or environment in which you and the majority of members in your work group work. A choice toward either end of the scale indicates that word best describes your work environment, while a response toward the middle is more neutral or indicates you are not sure. Please circle the number that comes closest to describing your work environment in the Navy. UNSTABLE STABLE 5 CERTAIN UNCERTAIN 3 9 2 3 SIMPLE COMPLEX

3

5

CHANGING RAPID GROWTH

2

UNCHANGING

SLOW GROWTH

Use this opportunity to communicate to the Chief, Dental Corps. Your responses are anonymous. Please be candid, legible, and concise.
Identify the three most positive aspects of serving in the Dental Corps.
1
2
3
Identify the three areas of the Dental Corps which most need improvement.
1
2
3
O
Thank you for your participation!
Please place your questionnaire in the pre-addressed envelope and return it to:
Commanding Officer
ATTN: LT Mark J. Bourne, MSC, USNR Naval Health Research Center
P.O. Box 85122
P.O. Box 85122 San Diego, CA 92186-5122

-11-

Appendix C

Sample Comments Within Category Groupings

Below are samples of respondents' comments to two survey items. Preceding each set of samples is the category heading used to summarize those and similar comments. The two survey items requested:

- a.) identification of the three most positive aspects of serving in the Dental Corps
- b.) identification of the three areas of the Dental Corps that most need improvement

The Most Positive Aspects of Serving in the Dental Corps	% of Respondents
Appreciates professional or social camaraderie Camaraderie / Social support system / The people / Lasting friendships Attitude of coworkers / Esprit de corps / Networking / Mentoring Consultation availability / Shared authority among colleagues Working with knowledgeable dental officers / Interaction with other specialties	65%
Appreciates officer training or education or residency opportunities Officer training essential / Training opportunities / Quality of training Advanced dental ed. opportunity / Dental residency program / GPR program C.E. programs / Specialty training / Orthodontic specialty residency opportunity	48%
Satisfied with enrichment/challenge/variety or working conditions Multiple career pathways / Different opportunities not available for civilians Excellent leadership/management opportunities Clinical rotations / Challenge / Sense of accomplishment Opportunity to practice dentistry / Providing dental treatment Opportunity for overall self-improvement / Personal growth Pride in job performed / Job satisfaction / Enjoy my job Enjoy the Dental Corps / Career dental officer / Good working conditions Milieu for professional growth / Professional satisfaction/development Opportunity for non-job-related activities / Sports / Recreation activities Emphasis on physical fitness	4 1%
Appreciates duty station or travel opportunity Operational tour / Shipboard experience / Overseas billet / Opportunity to travel New duty station / Variety of settings / Experiencing life all over the world / Cultural exposure / Flexibility in personal life to travel PCS mobility / Like moving every few years / Paid-for moving	41%
Appreciates Navy job conditions Can retire at early age / No overhead costs worry Can provide care despite inability to pay / Don't collect payments from patients No malpractice / Practicing free of business and legal burdens Security of knowing family is being taken care of Patients readily available / Large patient population / Young healthy patients Having duty officers for emergency patients Don't bring work home / Low stress level / No worries over sick or vacation time Regular hours / Time off / Regular vacation time / Leave and liberties	15%

^{*} Due to multiple response possibility, values sum to more than 100 percent.

Enjoys military lifestyle or patriotism Enjoy Navy / Dedication to Navy/Dental Corps Putting on the uniform / Military man / Service to country Combine military with dental career Unique career / Unique life / Unique lifestyle / Quality of life Goal- and mission-oriented / Supporting our fighting forces	15%
Appreciates job security Job security / Tenure	12%
Appreciates quality of care Quality of care / Quality of service / Corps emphasis on "quality" Empathy for patients / Good infection control	11%
Appreciates retirement or health benefits Working for retirement / Satisfactory retirement benefit Benefits / Health benefits	8%
Appreciates pay Steady pay / Steady income / Stability of pay scales Pay regular and predictable / Good pay in the beginning Appreciates initial student loan deferment	7%
Appreciates material support Excellent facilities / Excellent equipment	2%
Appreciates impact on family Family-life compatibility / Family stability	2%
Satisfied with leadership or TQM Excellent leadership / Compassionate immediate bosses Support given to Dental Corps by line community Superiors are very supportive of my career goals TQM is an improvement	2%
Satisfied with promotion opportunities Like the prospects	2%
Aspects of the Dental Corps That Most Need Improvement	% of Respondents*
Pay / Financial / Poor pay / Pay and compensation / Increase pay Pay program for jr. officers / Pay at lower ranks / Pay discrepancy Bonus and professional pay higher in private practice / Salaries not in line Higher specialty bonus pay needed / Low specialty pays Increase the pay and bonuses / Bonuses / Improve professional pay program Special pay lessens when member enters residency training ASP during residency (lack of adequate income) / Dental school debt overwhelmin Student loans unmanageable / Need loan deferment program	79% g

 $[\]mbox{^{\star}}$ Due to multiple response possibility, values sum to more than 100 percent.

Dissatisfied with promotion opportunities No upward mobility / Promotion opportunity restricted Not enough promotions / Promotion system / Clean up promotion Slow promotion / Decreased promotion opportunity / Revive frocking Consistency in promotion opportunity / Inequities in promotion potential Promotion opportunities and equity / Minority advancement Administration path forced on people for promotion Increase importance of clinical dentistry for promotion Civilian dentists get more credit for promotion Difficult for doctors from private practice to advance Eliminate separate agendas for training and promotion / Define promotion criteria Need input from specialty board for selection / Dissatisfied with augmentation process	38%
Dissatisfied with leadership / TQM / Evaluation process Needs better leadership and management / Stronger leadership training Most leaders are incompetent / Higher officers are inept / Leadership Incompetent branch clinic directors / TQM not working / Micromanagement Need command to enjoy dentistry / Lack of leadership / Lack of positive role models Leaders of vision needed / Lack of communicated vision by leadership Overall command organization / Need few executives / Too many chiefs per indians Give control back to branch clinics / Give control to subordinates of department heads LT and LCDR don't have enough authority / Red tape Politics / Good ol' boy relationships / Favoritism / Buddy system Abuse by senior officers / Treatment of juniors / TQM implementation Fitness reports are poor measure of individual / Evaluation system unfair Fitness reports not measuring main goal—dentistry / PRT	31%
Objects to other current Navy/BUMED policies Realistic infection control (needed) / Consistency in procedure (needed) Counting and ODR (need improvement) / CNT uniforms Reduce civilian contracts / Competence of contractors Parity with civilian hired practitioners / Better interchange with civilians Friendship in the dental teams (shore and sea) / Kill DOPMA Equal opportunity concerns / Retention and recruitment of minorities Discontinue reverse discrimination of females and minorities Dental officers should not lose credentials upon transfer Dependent overseas screening / Overseas screening process Dental care available to few dependents/retirees Service to fleet / Service to the fleet before deployment Too many large clinics vs. small / Have to work in the big clinics to be seen Differences from clinic to clinic (excessive) / Regionalization Budget restraints in the military overall / OPTARS too low Budget planning and allocation / Food allowance not good Get dental officer input for dental spaces before ship construction Need for computer education (ADP) / Increase interaction of Dental Corps and line MSC should be utilized to free dentists to treat patients Dental Corps losing autonomy / DC officers are second class to Medical Corps	17%
Objects to shortage of chairside dental officers Need retain/acquire quality dental officers / Dental officer shortage Senior personnel not chairside / Active practice by senior staff Retired officers stay in billets Retention of nonproductive personnel Release from active duty senior officers Retention inducements / Lack of specialty officers Lack of availability of specialty care / Lack of specialty officers Need peridontists / Need oral pathologists	16%

Objects to administrative requirements or collateral duties No administrative support / Too much administration / Bureaucracy in paperwork Decrease paperwork / Too much paperwork / Reduce reporting requirements Decrease paperwork and accounting procedures / DIRS Dentists aren't chairside enough due to too much admin. Too many collateral duties	16%
Overworking staff / Lack of communication / Lack of contact Need for officers to voice opinions without fear of retribution Constant looking over the shoulder Constant worry to accept every task/duty Dental officers treated as children / Disrespect for subordinates Disregard for personal wishes / Not open to suggestions/new ideas Need open and honest input / Teamwork not encouraged Recognition / Personal recognition / Limited positive feedback	14%
Dissatisfied with duty station or detailing process Duty stations in less desirable places / Unable to get duty station Transfers / Assignments / Location of assignment Personnel assignments / Equality of PCS / Detailing process New commissioned dental officers get operational billets More operational billets / Needs more overseas billets Hate sea duty / Sea duty objection / Overseas objection Mandatory overseas time / All should serve at sea Tours should be longer / No homesteading	10%
Dissatisfaction with officer training/residency programs/opportunities Increase training / Training not available / Selection for training Educational opportunity / Professional training opportunity Continuing education / Increase professional seminars Increase specialty training programs / Training/education for specialists inadequate More liberal training in orthodontic and postorthodontic Additional training for overseas slots / Emphasis on training Training of junior dental officers to be naval officers Reward for residency training / Eliminate advanced clinical dentistry program ACP programs / Less C.M.E. programs / Overhaul training programs Trained people-clinical, not administrative / Inadequate competence of dental officers Too long to get education / Shorter time for training Funding for education / Not enough TAD funding for continuing education	10%
Objects to limited enrichment/opportunity/challenge/variety Need administrative career path / Career progression / More rotations Being restricted to operative dentistry / Want to practice complete dental science Waste time on things not directed to professional development Loss of goal (to provide dentistry) / Loss of professional ethics Job challenge and diversity (needed) / Tired of patient care More variety / stimulation wanted / Variety of job opportunity Other job opportunities not readily available / Need better opportunity Tour not professionally rewarding / Not fun / Decrease pressure for more productivity Time for research (needed) / Time to teach (needed) / More time for fitness (needed) Lack of opportunities for minorities / Limited opportunities of career paths for women Operational opportunity for women / Junior lieutenants duty needs greater variety Ir. officers need to develop skills / Participation in professional program as junior officer	

Objects to dental or Dental Corps practices Need to provide sedation / Prevention of caries vs. treatment Dental Corps bias against oral surgeons / Specialists should do difficult cases Dental health care more responsible to operational needs Better coordinated fleet liaison programs No direct control over DT, supplies, patient flow / Need own supplies, DOR, DT, etc. Inefficient dental delivery system / Efficiency in clinical treatment Rethink blue-green shift / Credentialing program Dental readiness figures are inaccurate and misleading Screen MSC officers to serve as DTFs	10%
Dissatisfied with competence of enlisted staff Need better-trained dental technicians / Quality of dental technicians Enlisted A, C, and prosthetic C school (needs improvement) Expand training opportunities for DT Dental technical support staff / Technician support / Better lab support Need to be able to handle their own / Need quality personnel Lack of motivation in enlisted / Poor attitude of enlisted personnel Lack of incentives for enlisted / Enlisted promotion and pay raise	9%
Dissatisfied with enlisted staffing Number of dental technicians / Need retention of DTs Better allocation of DTs / DT utilization / Expand ancillary functions Clerical staff lacking and DTs are filling in / Lack of admin. support Enlisted staffing insufficient / Auxiliary support insufficient	8%
Dissatisfied with material support Supply access / Supplies problems / Supply system / Needs to be quicker Supplies not evenly distributed from command to command Equipment problems / Required to do more with less Resource utilization / Updating stock tables / Bad facilities / Newer facilities	7%
Dissatisfied with career guidance Uncertainty of career plan / Quality of guidance to junior dental officers Idea that there is one career pattern that fits all / Defined career paths for all Mentoring	6%
Dissatisfied with job security No tenure / No job security / Job security for junior officers Lack of job security due to DOPMA / DOPMA scares Need more alternatives to a 20-year career	5%
Dissatisfied with morale Morale / Low morale among junior officers Loss of team effort / Lack of dedication and view of big picture Need change of attitude of Navy dentists / Backstabbing / Too much competitiveness Specialize-or-perish mentality / No benefit to working hard—get more to do	4%
Dissatisfied with impact on family Improve family life / No stable family life / Stability / Family separation	3%
Dissatisfied with administrative vs. clinical emphasis Support the clinical dentist / Support of clinicians by administrators Lack of appreciation of clinical skills / Recognition for clinical - not administrative	2%

Dissatisfied with retirement or health benefits	2%
Poor retirement benefits / Erosion of benefits	
Poor family medical care / Poor quality of health care	
Put oral surgeon on carrier and give wartime benefits	
Dissatisfied with moving / PSD support	1%
PCS orders / Orders / Moves	
Treatment of people while moving / PSD support poor	
Moving costs / Moves cause financial hardships	
Dissatisfied with quality of care	1%
Need to treat patients, not numbers / Patient treatment	
Increase after-hour emergency patient visits	
Dissatisfied with military lifestyle	1%
Don't know if military is for me / Lifestyle	
Improve base housing / Poor housing conditions	
Poor childcare available	
Objects to Quality Assurance restrictions	< 1%
(OA) Paperwork drills / QA system / Corps too obsessed with QA	

·				
REPORT DOCUMENTATION PAGE		Form Approved OMB No. 0704–0188		
Public reporting burden for this collection of information is estimated to average 1 hour per response, including the time for reviewing instructions, searching existing data sources, gathering and maintaining the data needed, and completing and reviewing the collection of information. Send comments regarding this burden estimate or any other aspect of this collection of information, including suggestions for reducing this burden, to Washington Headquarters Services, Directorate for Information Operations and Reports, 1215 Jefferson Davis Highway, Suite 1204, Arlington, VA 22202–4302, and to the Office of Management and Budget, Paperwork Reduction Project (0704–0188), Washington, DC 20503.				
AGENCY USE ONLY (Leave blank)	2. REPORT DATE	3. REPORT TYPE AND DATE COVERED		
	May 1995	Interim Apr 94 to May 95		
4. TITLE AND SUBTITLE		5. FUNDING NUMBERS		
U.S. Navy Dental Corps Survey of 1994: Analysis of Narrative Responses		Program Element: 65152N Work Unit Number:		
Larry Shaw, LCDR, DC, US	Larry Shaw, LCDR, DC, USN			
7. PERFORMING ORGANIZATION NAME(S) AND ADD	DRESS(S)	8. PERFORMING ORGANIZATION		
Naval Health Research Center P. O. Box 85122 San Diego, CA 92186–5122		Report No. 95–9		
9. SPONSORING/MONITORING AGENCY NAME(S) AND ADDRESS(S) Naval Medical Research and Development Command National Naval Medical Center Building 1, Tower 2 Bethesda, MD 20889–5044 11. SUPPLEMENTARY NOTES		10. SPONSORING/MONITORING AGENCY REPORT NUMBER		
12a. DISTRIBUTION/AVAILABILITY STATEMENT Approved for public release; distribution	is unlimited.	12b. DISTRIBUTION CODE		
13. ABSTRACT (Maximum 200 words)				
Following recent changes in the organizational structure and mission of the U.S. Navy, the Chief of the Navy Dental Corps requested a study of organizational attitudes, perceptions, and outcomes. An anonymous survey was sent to all active—duty Navy Dental Corps officers. A total of 915 officers responded to the survey. Content analysis was conducted on the narrative responses to the items asking for the most positive aspects of serving in the Dental Corps and the aspects most in need of improvement. Results indicated that the leading positive aspects of Navy dentistry were: professional/social camaraderie, training/educational opportunities, on—the—job professional enrichment, opportunities for travel or particular duty assignments, military/patriotic lifestyle, and Navy—related job conditions. The leading aspects of Navy dentistry identified most often as in need of improvement were: pay, promotion, leadership, Navy policies, shortage of chairside Dental Corps officers, and administrative or collateral duty requirements. Results were assessed as a function of occupational specialty, gender, and career stage (rank). This study points to the importance of assessing qualitative information from the membership when defining the issues affecting complex military organizations.				
14. SUBJECT TERMS		15. NUMBER OF PAGES		
Naval Medicine, Navy Medical Personnel, Dental Corps, Dentists, Organizational Climate, Content Analysis		34		
		16. PRICE CODE		

18. SECURITY CLASSIFICA-TION OF THIS PAGE

Unclassified

19. SECURITY CLASSIFICA-TION OF ABSTRACT

Unclassified

17. SECURITY CLASSIFICA-TION OF REPORT

Unclassified

20. LIMITATION OF ABSTRACT

Unlimited